

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012
Effective: 04/04/2012

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100387 Analyst Colleen O'Bryant Start Date 9/23/13
Diagnostic Test (attached)

1. Voltage Checks

a. Adjust voltages, if needed

i. Lamp (2.6V Maximum)

ii. Bias (80V)

iii. Cooler (2.0V Maximum)

iv. Chopper Frequency

v. Detector Voltage (-0.100V to 0.100V)

b. Set RFI c. Adjust barometer reading to match NIST traceable barometer d. Adjust volume setting, if needed (1.5L +/- 0.1L)

e. Print Technician Screen (attached)

2. Print Calibration Factors (attached)

3. Volume Test - Minimum 1600 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used i. 0.020g/210L Mnf ILMO Lot 00813020A1 Exp 03/01/2015ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 03/01/2015iii. 0.080g/210L Mnf ILMO Lot 22612080A1 Exp 09/01/2014iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 03/01/2015v. 0.200g/210L Mnf Guth Lot 12120 Exp 08/10/20141. Simulator S/N SD1198 Date Calibrated 01/23/2013vi. 0.300g/210L Mnf Guth Lot 13080 Exp 03/19/20151. Simulator S/N SD1088 Date Calibrated 01/23/2013

5. Functional Tests (attached)

a. Incomplete b. Invalid c. Interference i. Acetone - Mnf Guth Lot 13010 Level 0.100 Exp 01/09/20151. Simulator S/N DR5298 Date Calibrated 10/08/2012ii. Isopropanol - Mnf Guth Lot 13010 Level 0.100 Exp 01/09/20151. Simulator S/N SD1202 Date Calibrated 10/08/2012 ^{SD} 10/09/2012iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/20131. Simulator S/N SD1199 Date Calibrated 01/23/2013d. RFI 6. Verify stylus is calibrated 7. Verify card reader is functional 8. Reset Options 9. Clear Memory 10. Verification of Calibration 11. Non-Drinking Subject Test (attached) 12. Upload 13. Update agency information and polling status in DM Host Calling Program End Date 9/23/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 09/23/2013
Time: 09:08:18

VERSIONS
DMT: 2.00
PIC: 3.02
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 47.9°C PASSED

PUMP INFO
Flow Rate = 4.336 L/M PASSED

DETECTOR INFO
PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO
Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED

Technician Screen

DATAMASTER dmt: 100387

Date: 09/23/2013
Time: 9:22 AM

Temperatures (°C)

Sample Cell: 48.9°C
Breath Tube: 47.9°C

Current Barometer 28.8 in
Volume (Ltr) 1.44

Settings

Lamp: 1.75 V
Bias: 79 V
Cooler: 1.66 V
Chopper: 540 Hz

Voltages (V)

Flow: 1.05 V
Detector: -0.009 V

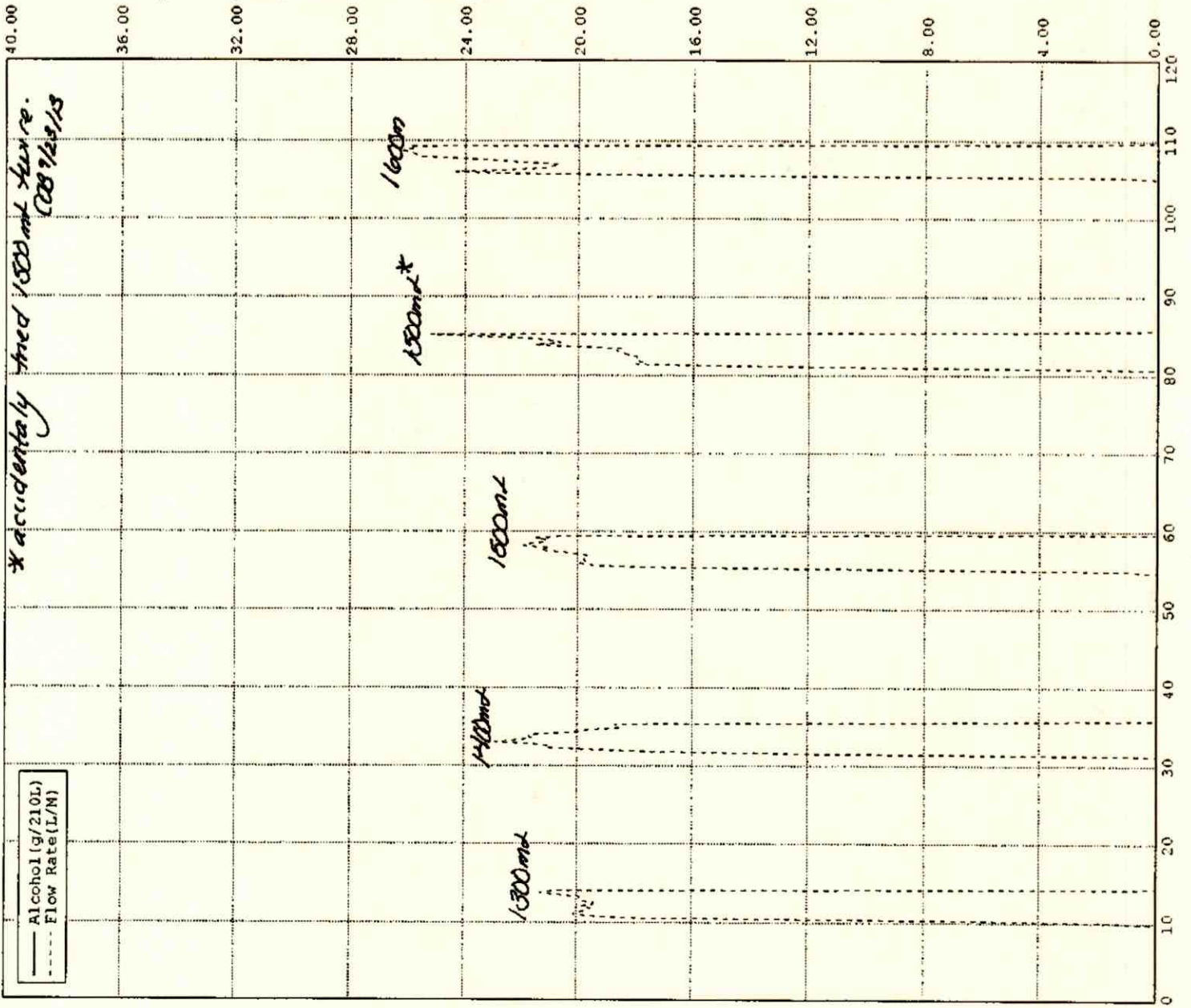
CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 09/18/2012
Time: 12:25:22

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

| | | | | |
|-----|---|----------|--------|----------------|
| Ca | = | 0.1000 | | |
| CAL | = | 0.972401 | 0.800 | <= CAL < 1.200 |
| b1 | = | 0.0001 | 0.0000 | <= b1 < 0.0040 |
| b2 | = | 0.0054 | 0.0010 | <= b2 < 0.0100 |
| b3 | = | 0.0000 | 0.0000 | <= b3 < 0.0040 |
| Xq | = | 0.0980 | 0.0500 | <= Xq < 0.2000 |
| a21 | = | 1.168421 | 1.050 | <= a21 < 1.300 |
| a31 | = | 0.471464 | 0.300 | <= a31 < 0.800 |



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100387

 Date: 09/23/2013
 Time: 10:07:31

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

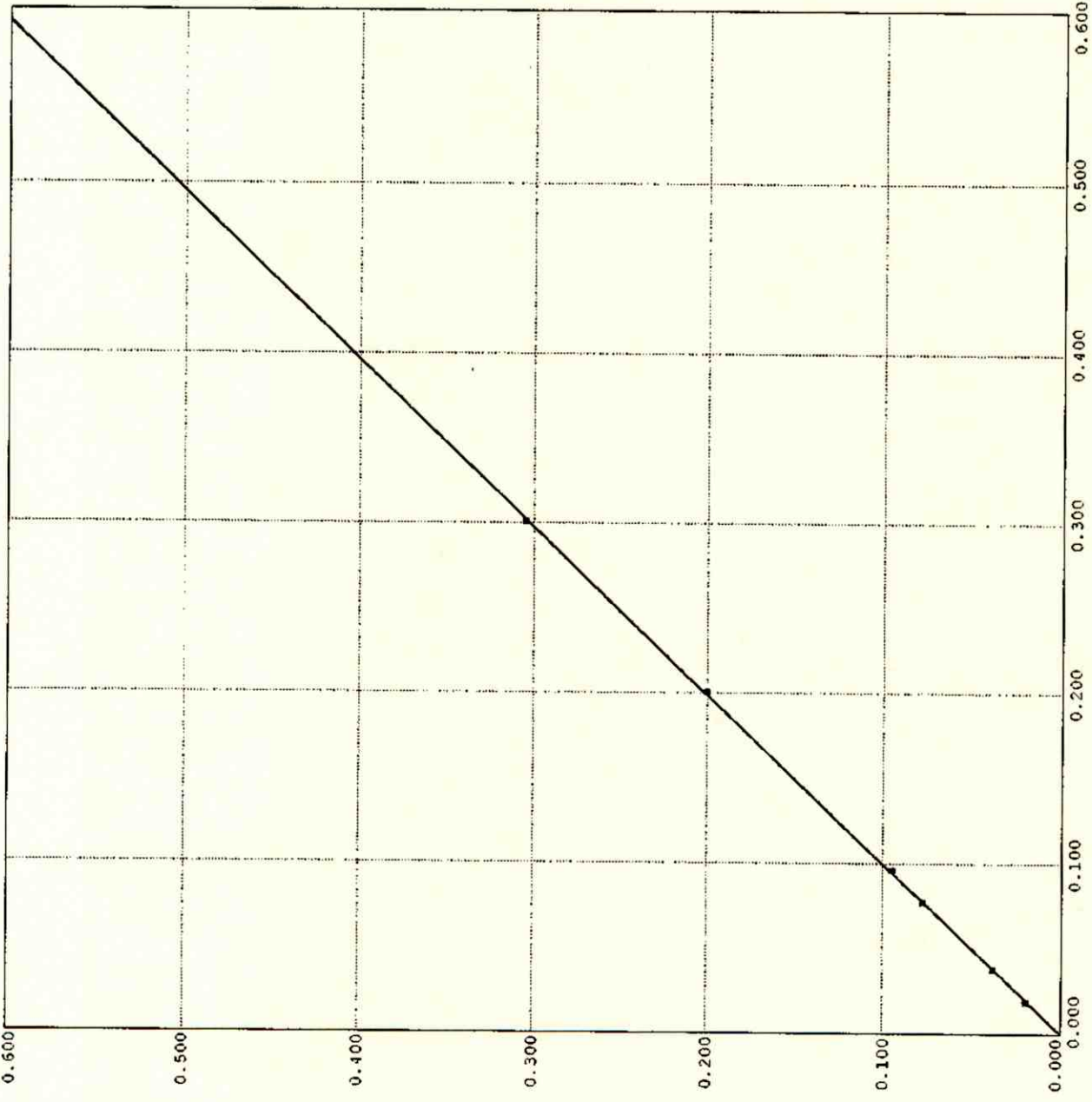
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.80: 0.076
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

| TEST TYPE | RESULT | TIME |
|-------------------|----------|-------|
| DIAGNOSTIC CHECK | PASSED | 10:08 |
| BLANK TEST | 0.000 | 10:08 |
| INTERNAL STANDARD | VERIFIED | 10:08 |
| EXTERNAL STANDARD | 0.078 | 10:09 |
| BLANK TEST | 0.000 | 10:09 |
| SUBJECT SAMPLE | 0.000 | 10:11 |
| BLANK TEST | 0.000 | 10:12 |
| EXTERNAL STANDARD | 0.078 | 10:12 |
| BLANK TEST | 0.000 | 10:13 |

CAB



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

Date: 09/23/2013
 Time: 10:27:31

SUPERVISOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

| TARGET | AVERAGE | STD. DEV. |
|--------|---------|-----------|
| 0.019 | 0.0207 | 0.0002 |
| 0.038 | 0.0393 | 0.0001 |
| 0.077 | 0.0786 | 0.0002 |
| 0.096 | 0.0957 | 0.0001 |
| 0.200 | 0.2010 | 0.0002 |
| 0.300 | 0.3054 | 0.0003 |

SLOPE = 1.011853
 R² = 0.999829

CO

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

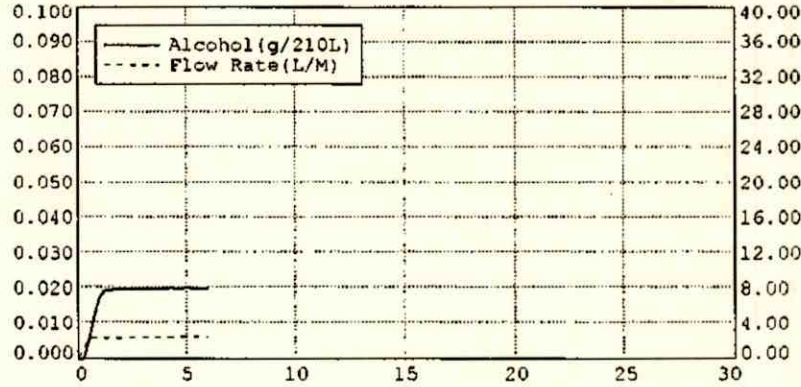
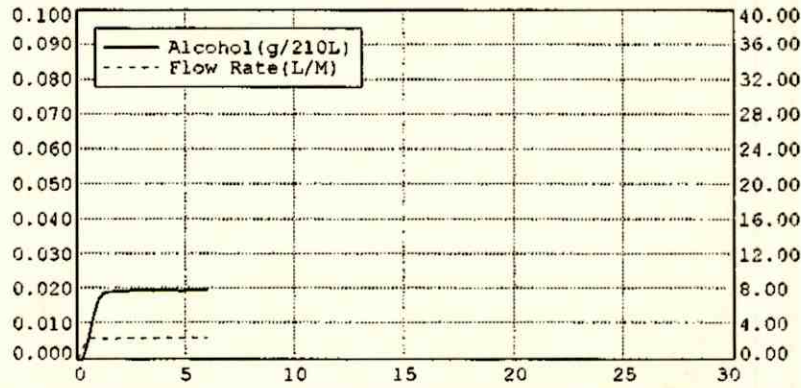
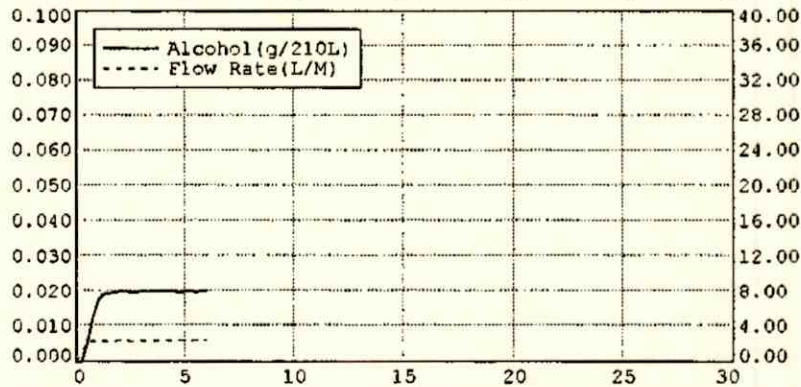
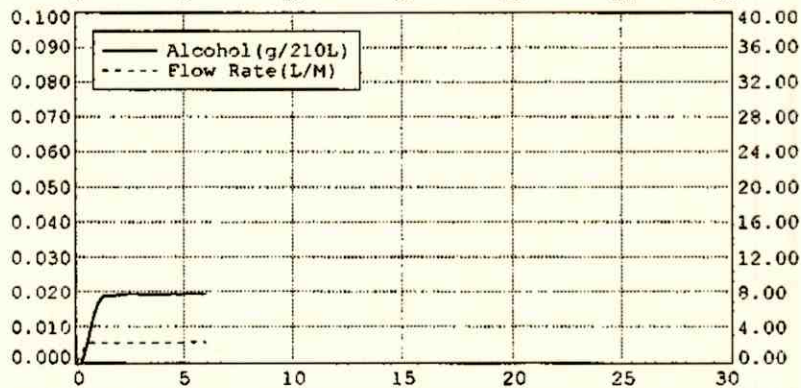
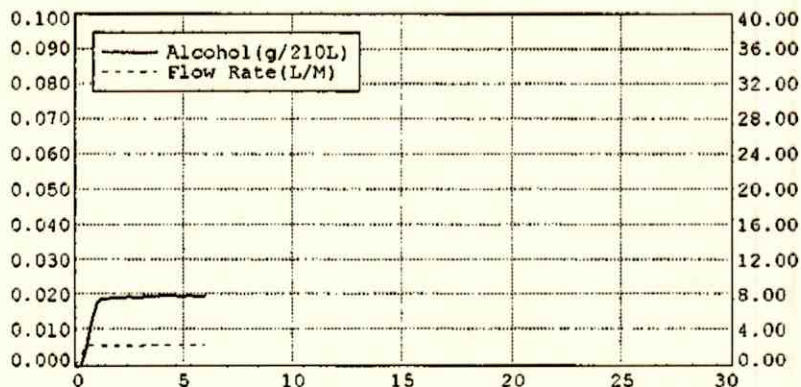
Date: 09/23/2013
 Time: 10:27:33

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 28.80: 0.019
 LOT #: 00813020A1
 EXPIRATION: 03/01/2015

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 10:34 |
| INTERNAL STANDARD | VERIFIED | 10:34 |
| EXTERNAL STANDARD | 0.020 | 10:35 |
| BLANK TEST | 0.000 | 10:36 |
| EXTERNAL STANDARD | 0.020 | 10:36 |
| BLANK TEST | 0.000 | 10:37 |
| EXTERNAL STANDARD | 0.021 | 10:37 |
| BLANK TEST | 0.000 | 10:38 |
| EXTERNAL STANDARD | 0.020 | 10:38 |
| BLANK TEST | 0.000 | 10:39 |
| EXTERNAL STANDARD | 0.020 | 10:39 |
| BLANK TEST | 0.000 | 10:40 |

Average = 0.0207
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

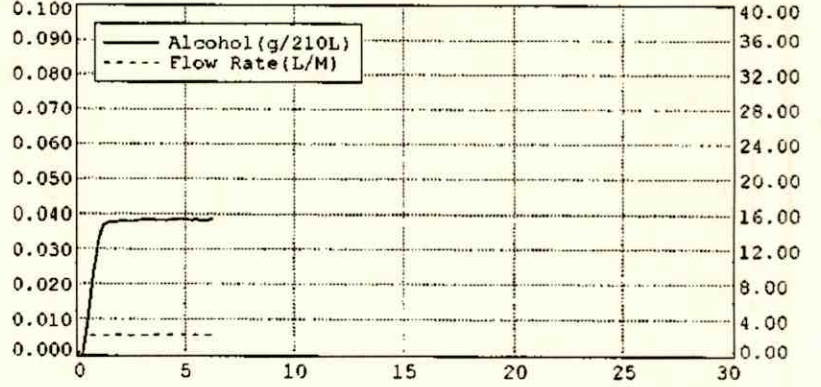
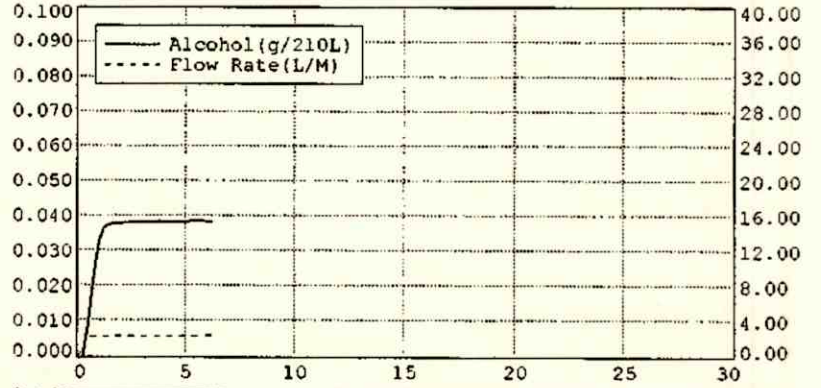
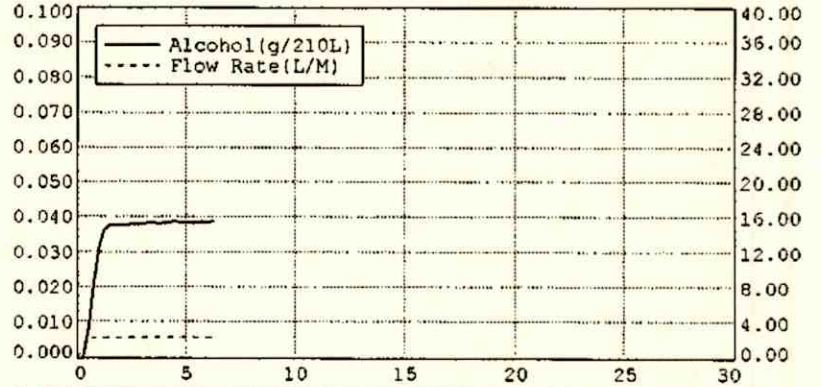
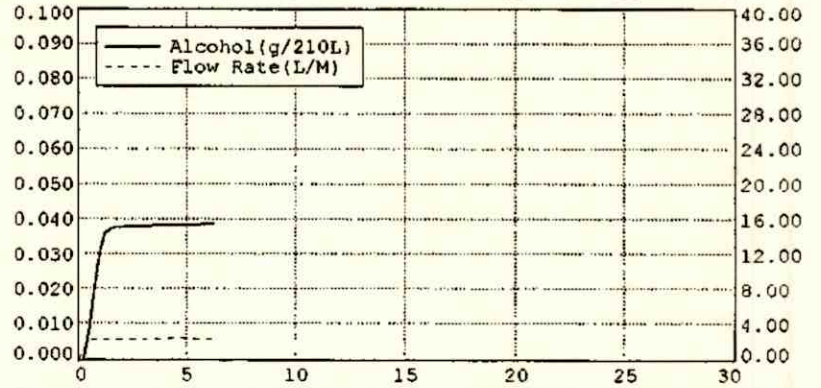
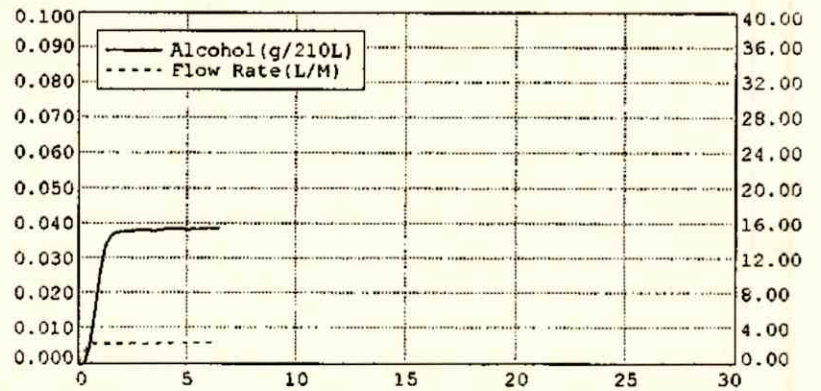
Date: 09/23/2013
 Time: 10:40:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 28.80: 0.038
 LOT #: 00813040A2
 EXPIRATION: 03/01/2015

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 10:42 |
| INTERNAL STANDARD | VERIFIED | 10:42 |
| EXTERNAL STANDARD | 0.039 | 10:43 |
| BLANK TEST | 0.000 | 10:44 |
| EXTERNAL STANDARD | 0.039 | 10:44 |
| BLANK TEST | 0.000 | 10:45 |
| EXTERNAL STANDARD | 0.039 | 10:45 |
| BLANK TEST | 0.000 | 10:46 |
| EXTERNAL STANDARD | 0.039 | 10:46 |
| BLANK TEST | 0.000 | 10:47 |
| EXTERNAL STANDARD | 0.039 | 10:47 |
| BLANK TEST | 0.000 | 10:48 |

Average = 0.0393
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

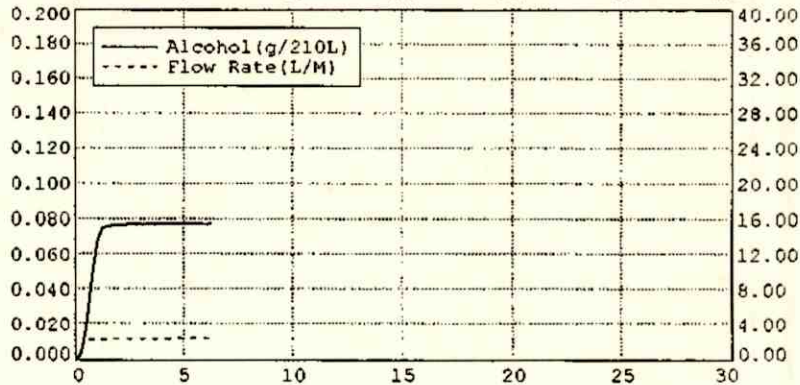
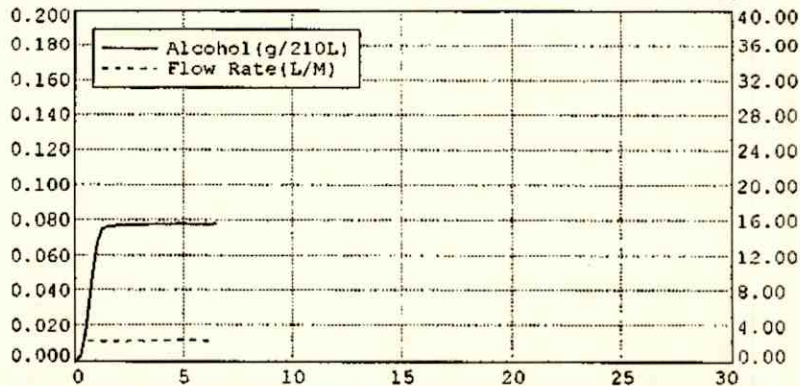
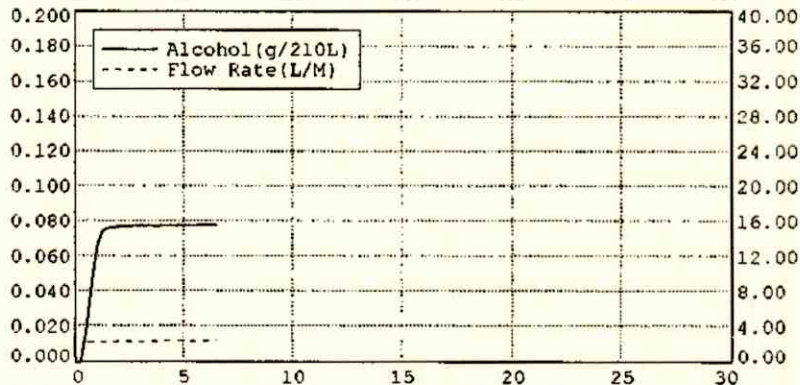
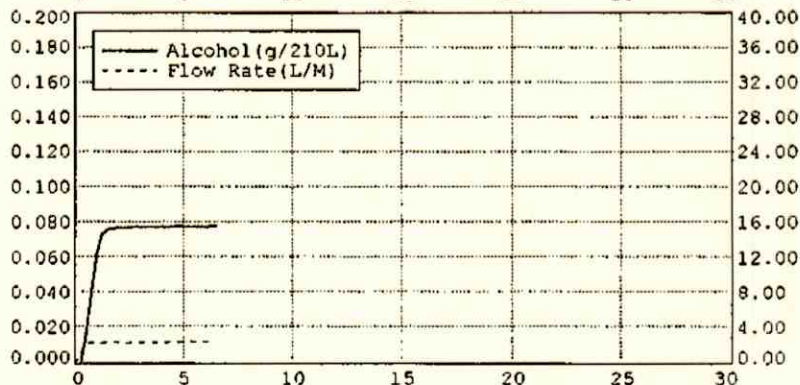
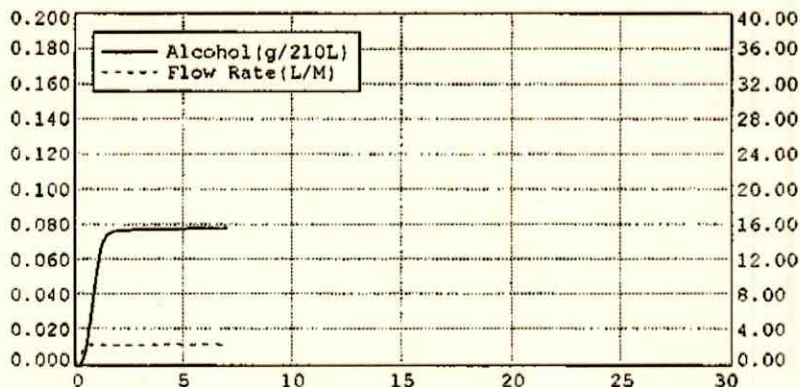
Date: 09/23/2013
 Time: 10:49:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 28.81: 0.077
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 10:50 |
| INTERNAL STANDARD | VERIFIED | 10:50 |
| EXTERNAL STANDARD | 0.078 | 10:50 |
| BLANK TEST | 0.000 | 10:51 |
| EXTERNAL STANDARD | 0.078 | 10:52 |
| BLANK TEST | 0.000 | 10:52 |
| EXTERNAL STANDARD | 0.078 | 10:53 |
| BLANK TEST | 0.000 | 10:54 |
| EXTERNAL STANDARD | 0.078 | 10:54 |
| BLANK TEST | 0.000 | 10:55 |
| EXTERNAL STANDARD | 0.078 | 10:55 |
| BLANK TEST | 0.000 | 10:56 |

Average = 0.0786
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

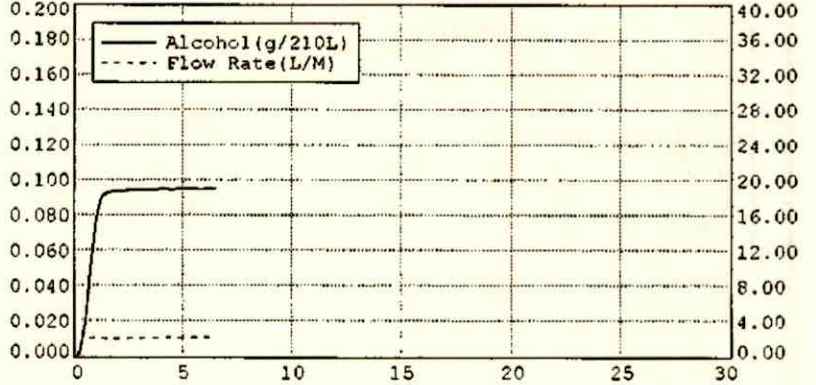
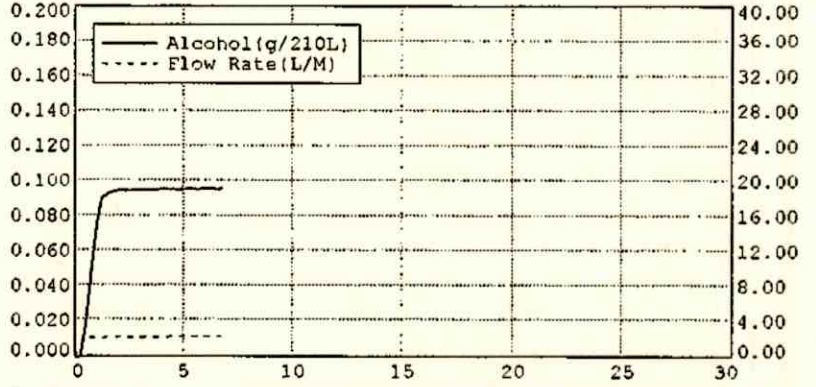
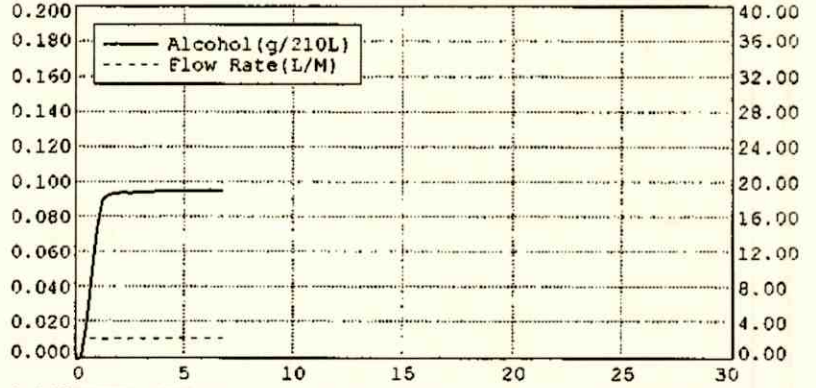
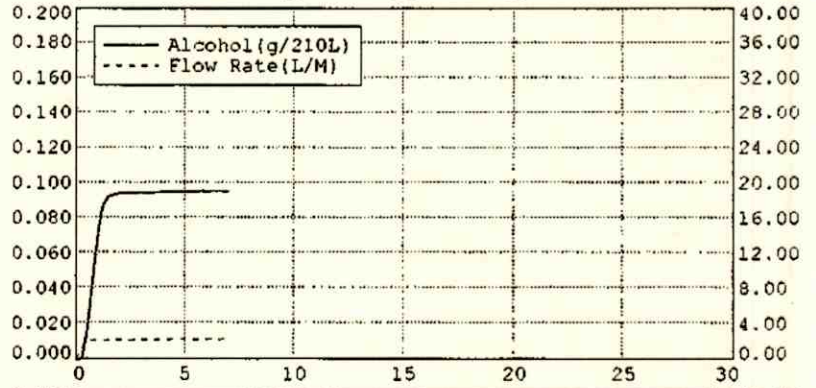
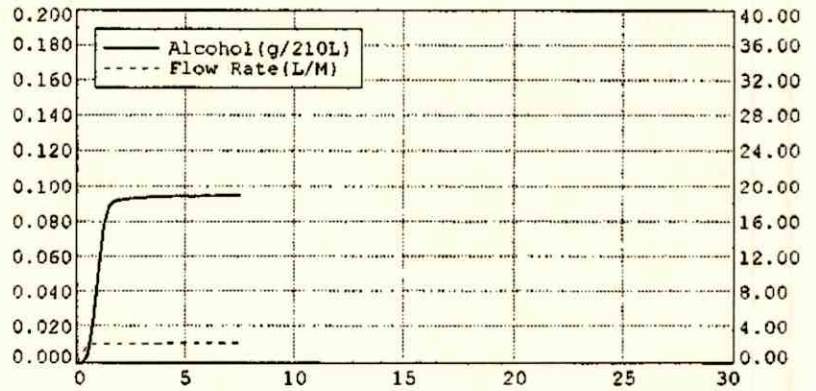
Date: 09/23/2013
 Time: 12:06:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 28.84: 0.096
 LOT #: 00813100A3
 EXPIRATION: 03/01/2015

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 12:07 |
| INTERNAL STANDARD | VERIFIED | 12:07 |
| EXTERNAL STANDARD | 0.095 | 12:08 |
| BLANK TEST | 0.000 | 12:08 |
| EXTERNAL STANDARD | 0.095 | 12:09 |
| BLANK TEST | 0.000 | 12:10 |
| EXTERNAL STANDARD | 0.095 | 12:10 |
| BLANK TEST | 0.000 | 12:11 |
| EXTERNAL STANDARD | 0.095 | 12:11 |
| BLANK TEST | 0.000 | 12:12 |
| EXTERNAL STANDARD | 0.095 | 12:12 |
| BLANK TEST | 0.000 | 12:13 |

Average = 0.0957
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 5

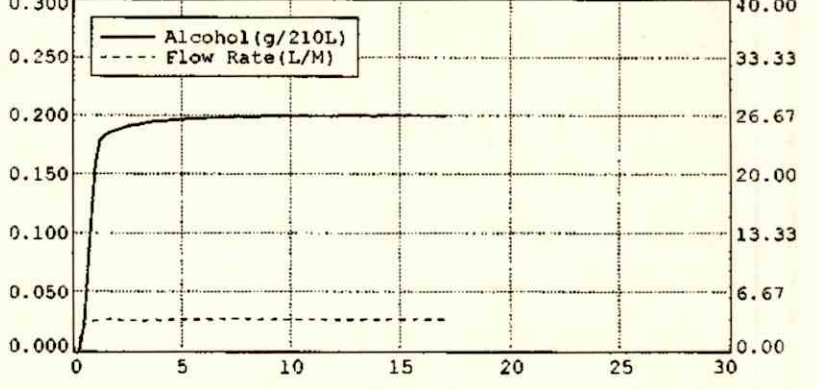
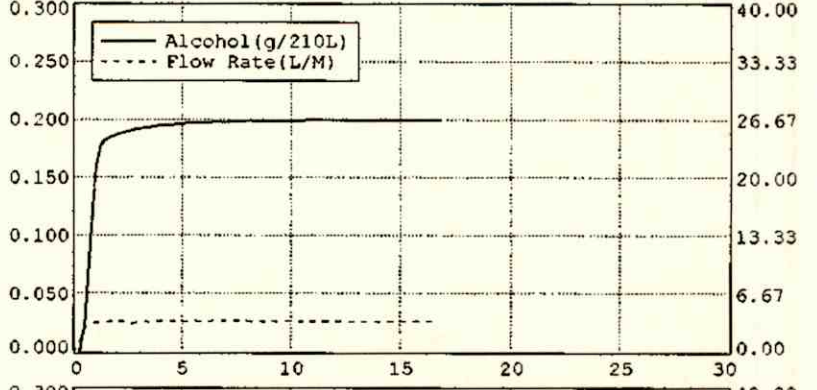
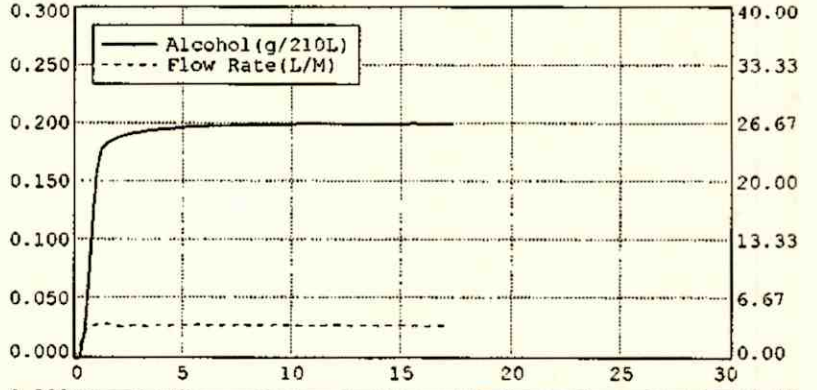
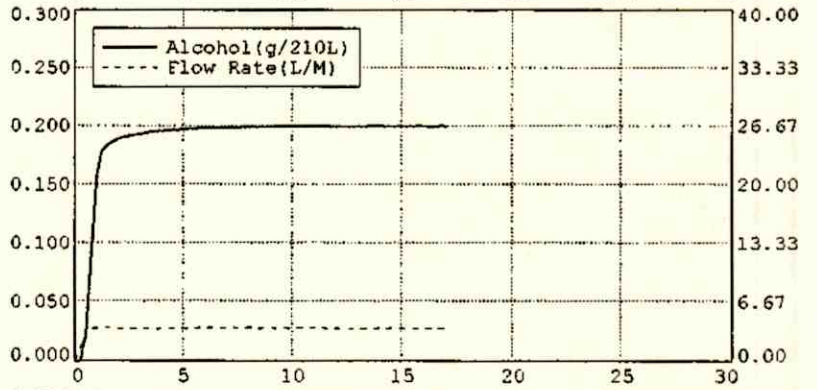
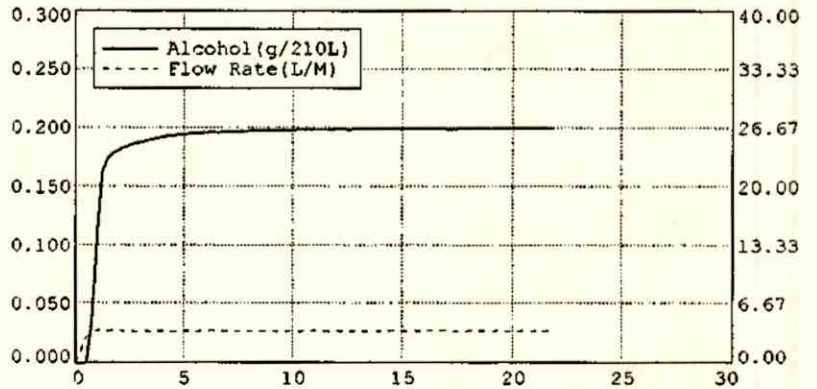
Alaska Department of Public Safety
 DATAMASTER dmt: 100387

Date: 09/23/2013
 Time: 12:14:04

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 12120
 EXPIRATION: 08/10/2014

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 12:17 |
| INTERNAL STANDARD | VERIFIED | 12:17 |
| EXTERNAL STANDARD | 0.200 | 12:17 |
| BLANK TEST | 0.000 | 12:19 |
| EXTERNAL STANDARD | 0.200 | 12:19 |
| BLANK TEST | 0.000 | 12:20 |
| EXTERNAL STANDARD | 0.200 | 12:20 |
| BLANK TEST | 0.000 | 12:21 |
| EXTERNAL STANDARD | 0.201 | 12:22 |
| BLANK TEST | 0.000 | 12:23 |
| EXTERNAL STANDARD | 0.201 | 12:23 |
| BLANK TEST | 0.000 | 12:24 |

Average = 0.2010
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

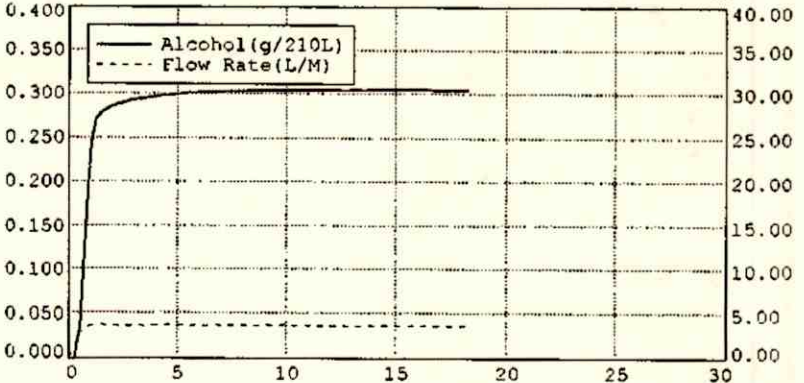
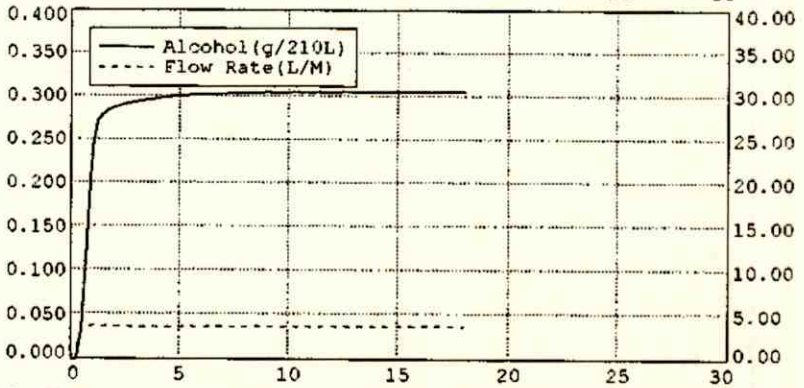
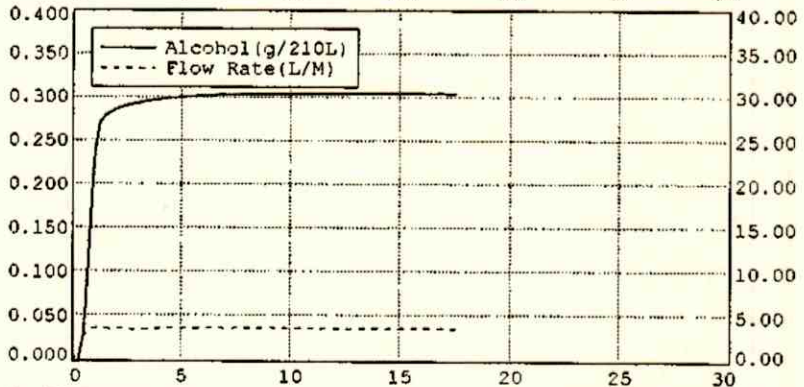
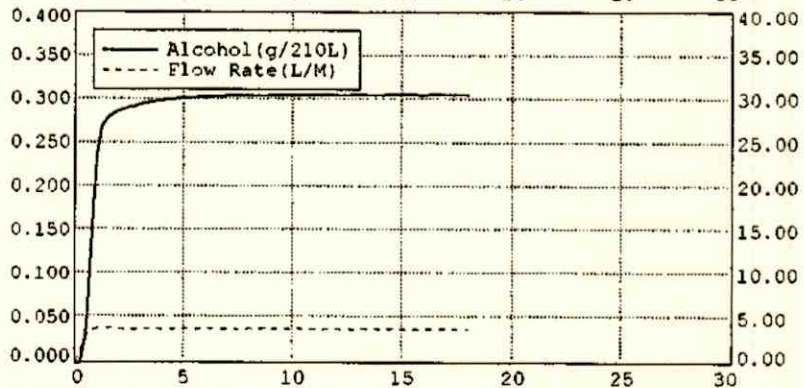
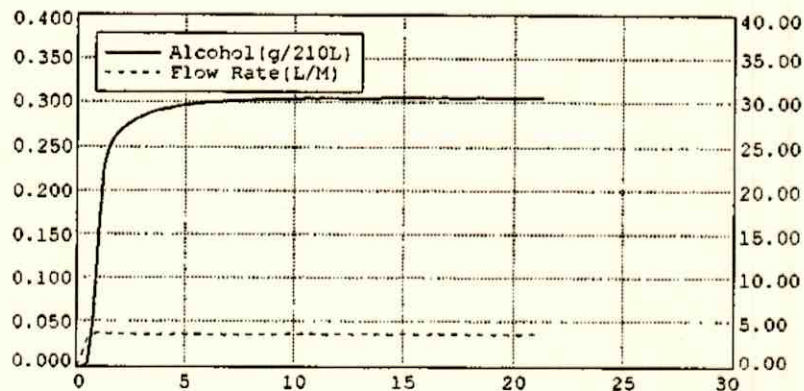
Date: 09/23/2013
 Time: 12:25:29

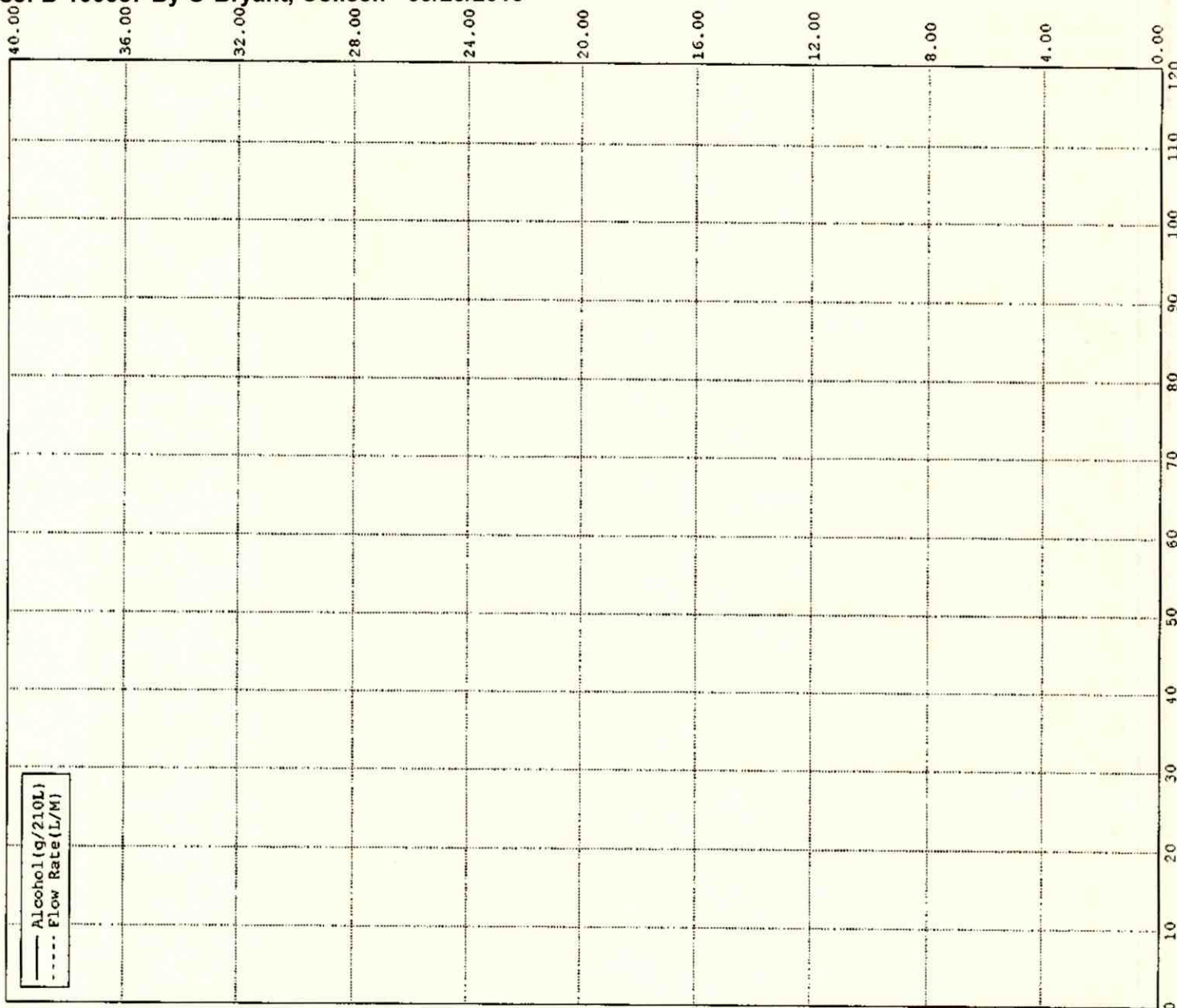
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 13080
 EXPIRATION: 03/19/2015

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 12:26 |
| INTERNAL STANDARD | VERIFIED | 12:26 |
| EXTERNAL STANDARD | 0.305 | 12:27 |
| BLANK TEST | 0.000 | 12:28 |
| EXTERNAL STANDARD | 0.305 | 12:28 |
| BLANK TEST | 0.000 | 12:29 |
| EXTERNAL STANDARD | 0.305 | 12:30 |
| BLANK TEST | 0.000 | 12:30 |
| EXTERNAL STANDARD | 0.305 | 12:31 |
| BLANK TEST | 0.000 | 12:32 |
| EXTERNAL STANDARD | 0.305 | 12:32 |
| BLANK TEST | 0.000 | 12:33 |

Average = 0.3054
 Std Dev = 0.0003





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100387

 Date: 09/23/2013
 Time: 12:39:48

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

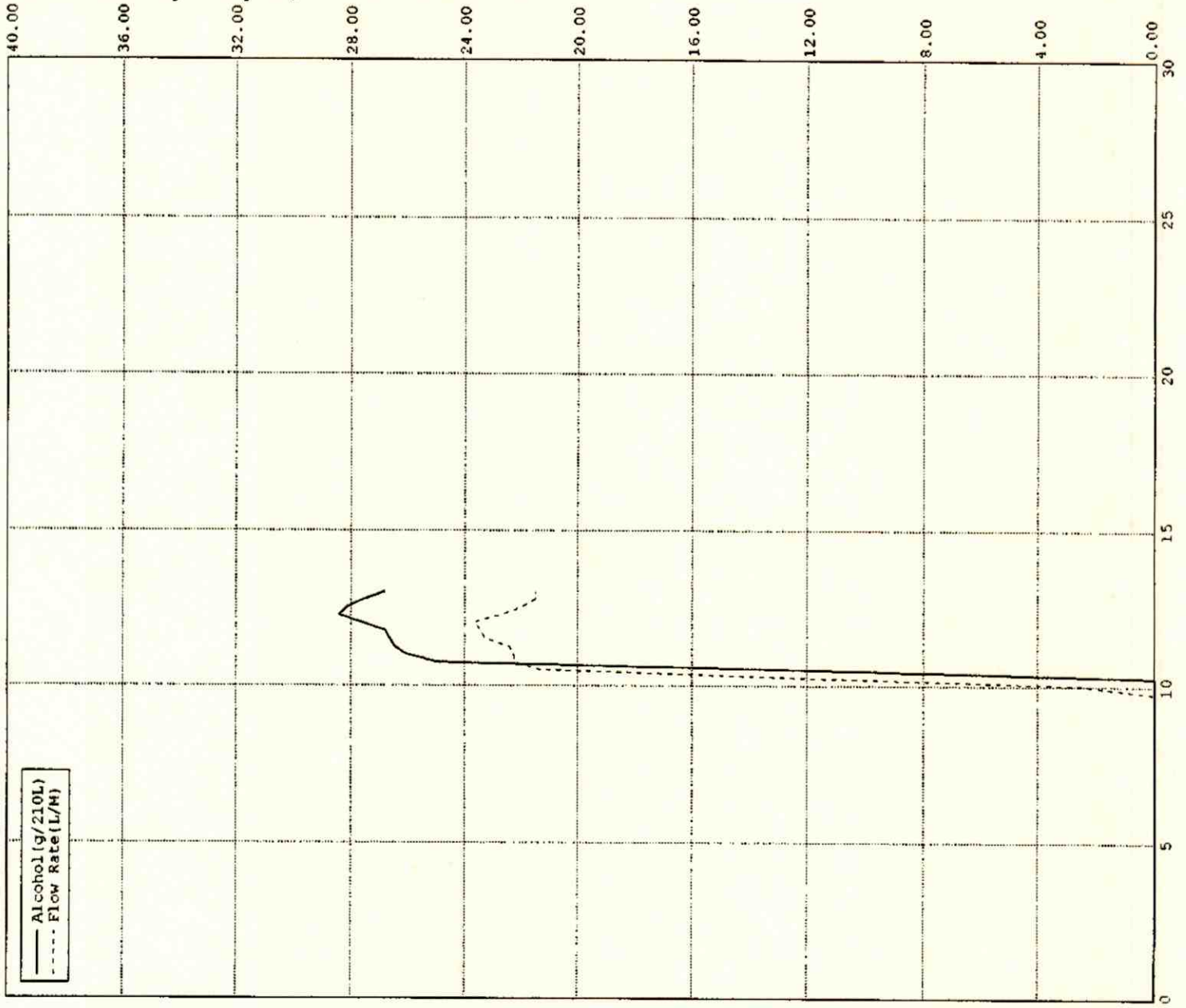
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.86: 0.077
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK PASSED 12:59
BLANK TEST 0.000 12:59
INTERNAL STANDARD VERIFIED 12:59
EXTERNAL STANDARD 0.079 12:59
BLANK TEST 0.000 13:00
SUBJECT SAMPLE INCOMPLETE 13:02

CS



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100387

 Date: 09/23/2013
 Time: 13:05:51

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

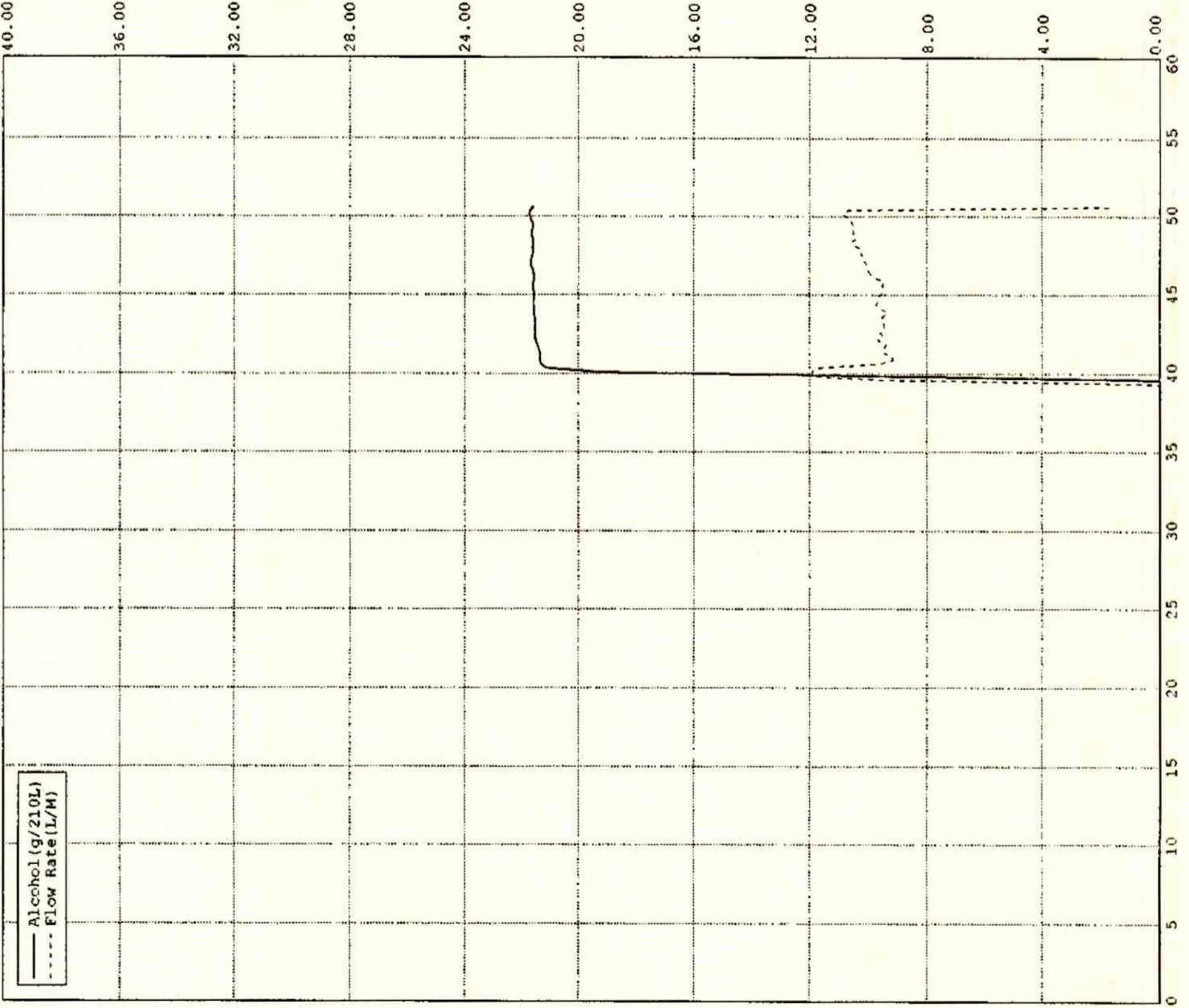
EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.86: 0.077
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK PASSED 13:07
 BLANK TEST 0.000 13:07
 INTERNAL STANDARD VERIFIED 13:07
 EXTERNAL STANDARD 0.079 13:07
 BLANK TEST 0.000 13:08
 SUBJECT SAMPLE INVALID 13:09

CB

Alcohol (g/210L)

 Flow Rate (L/M)



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100387

Date: 09/23/2013
 Time: 13:17:06

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACETONE

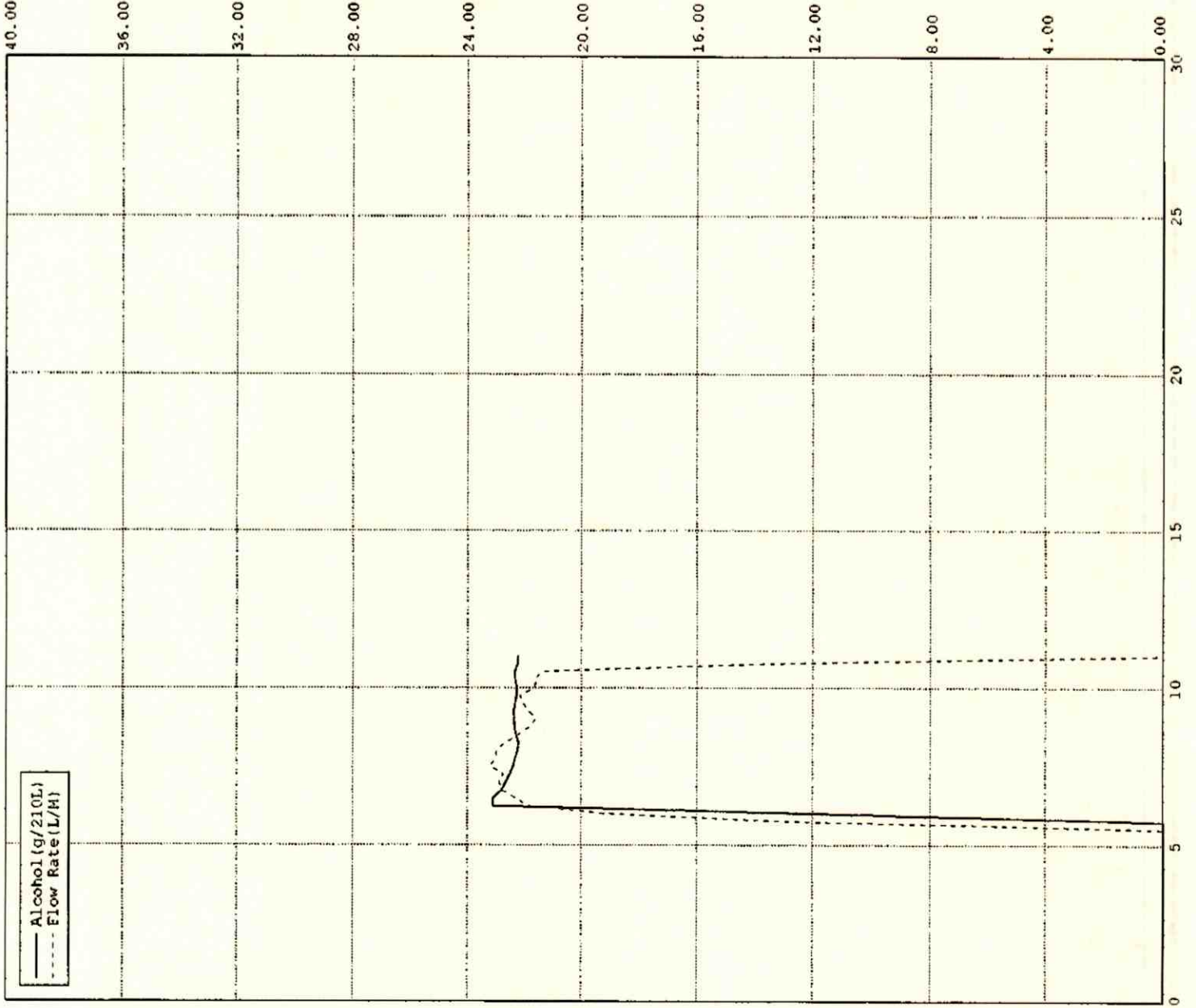
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.86: 0.077
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

| | | |
|------------------------------------|--------------|-------|
| DIAGNOSTIC CHECK | PASSED | 13:18 |
| BLANK TEST | 0.000 | 13:18 |
| INTERNAL STANDARD | VERIFIED | 13:19 |
| $X_q = 0.097$ (0.63%) | | |
| EXTERNAL STANDARD | 0.078 | 13:19 |
| $X[1] = 0.0785$ (-0.0012) (0.0036) | | |
| BLANK TEST | 0.000 | 13:20 |
| SUBJECT SAMPLE | INTERFERENCE | 13:21 |
| $X[1] = 0.1083$ (-0.0163) (0.0032) | | |

CB



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER cmt: 100387

 Date: 09/23/2013
 Time: 13:23:54

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

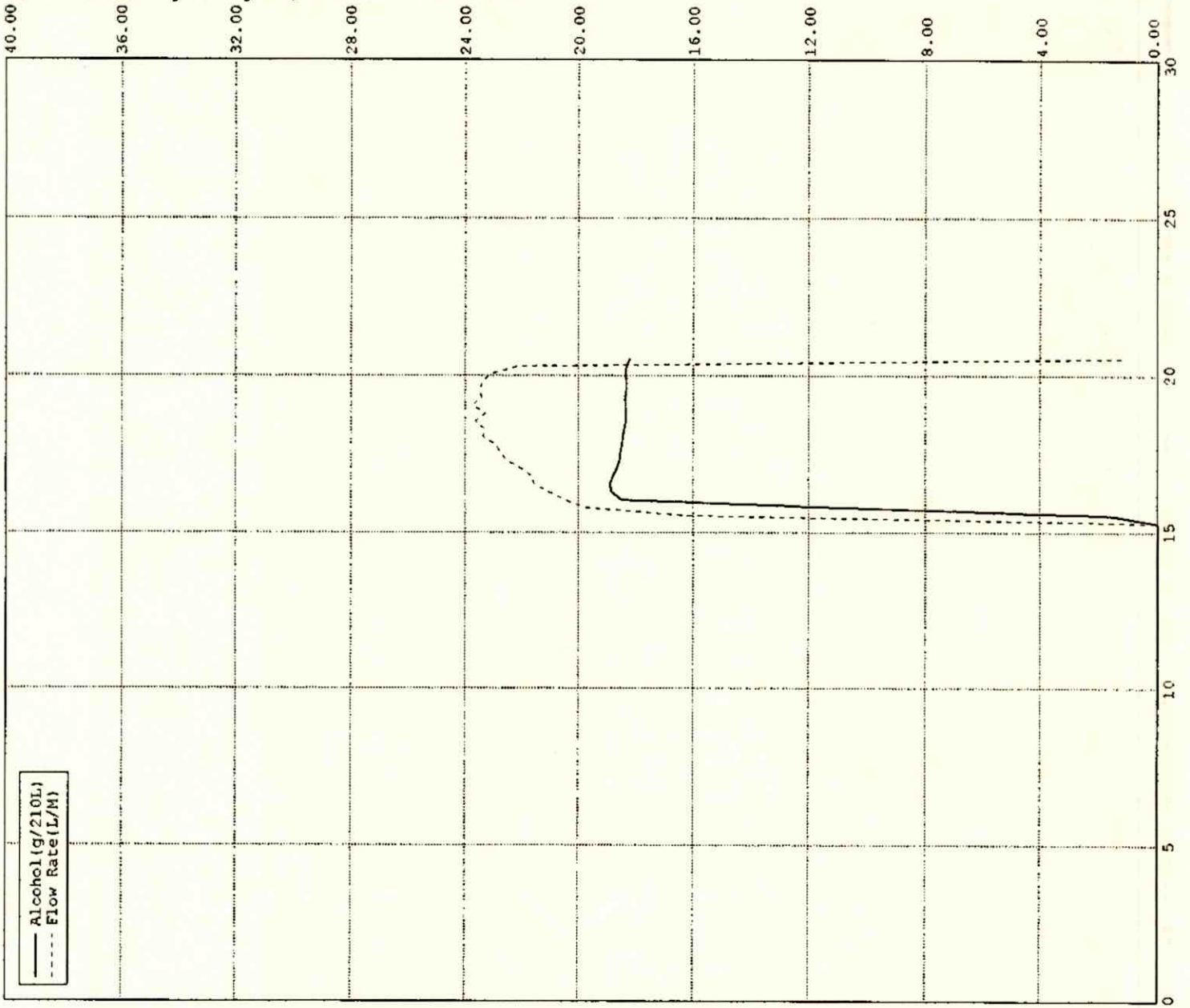
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.86: 0.077
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK PASSED 13:26
BLANK TEST 0.000 13:26
INTERNAL STANDARD VERIFIED 13:26
 Xq = 0.098 (0.09%)
EXTERNAL STANDARD 0.079 13:26
 X[1] = 0.0792 (-0.0007) (0.0024)
BLANK TEST 0.000 13:27
SUBJECT SAMPLE INTERFERENCE 13:28
 X[1] = 0.1113 (-0.0233) (0.0019)

COB



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100387

 Date: 09/23/2013
 Time: 13:37:22

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

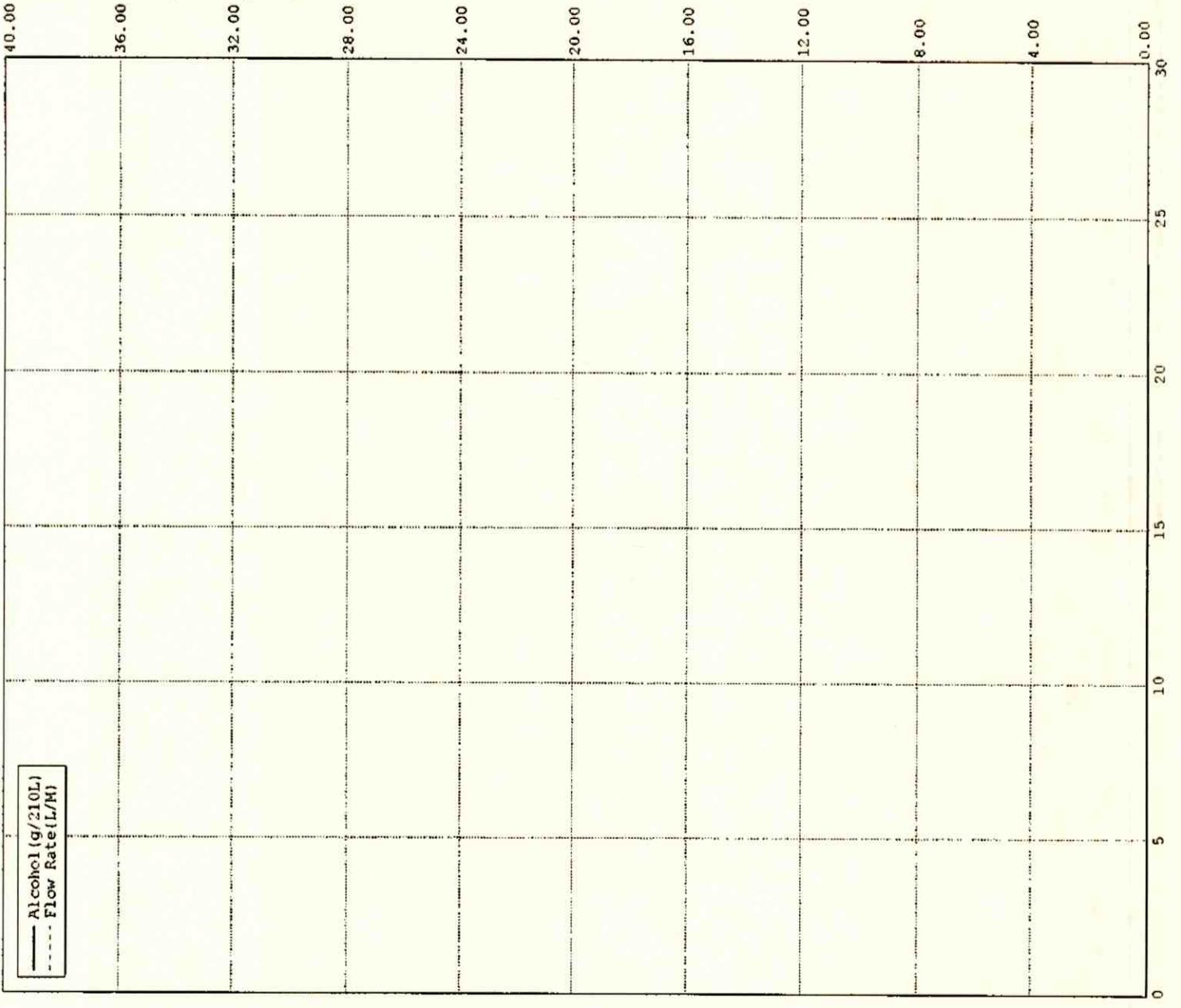
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.86: 0.077
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

| | | |
|----------------------------|----------|-------|
| DIAGNOSTIC CHECK | PASSED | 13:38 |
| BLANK TEST | 0.000 | 13:38 |
| INTERNAL STANDARD | VERIFIED | 13:38 |
| Xg = 0.098 (0.09%) | | |
| EXTERNAL STANDARD | 0.079 | 13:38 |
| X[1] = 0.0792 (-0.0004) | (0.0025) | |
| BLANK TEST | 0.000 | 13:39 |
| SUBJECT SAMPLE (Vol=1.85L) | 0.091 | 13:40 |
| X[1] = 0.0912 (0.0008) | (0.0021) | |
| BLANK TEST | 0.000 | 13:41 |
| EXTERNAL STANDARD | 0.078 | 13:41 |
| X[1] = 0.0787 (-0.0008) | (0.0031) | |
| BLANK TEST | 0.000 | 13:42 |

CSB



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100387

 Date: 09/23/2013
 Time: 13:47:23

SUBJECT NAME:
 TEST TEST
 LICENSE #: RFI

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

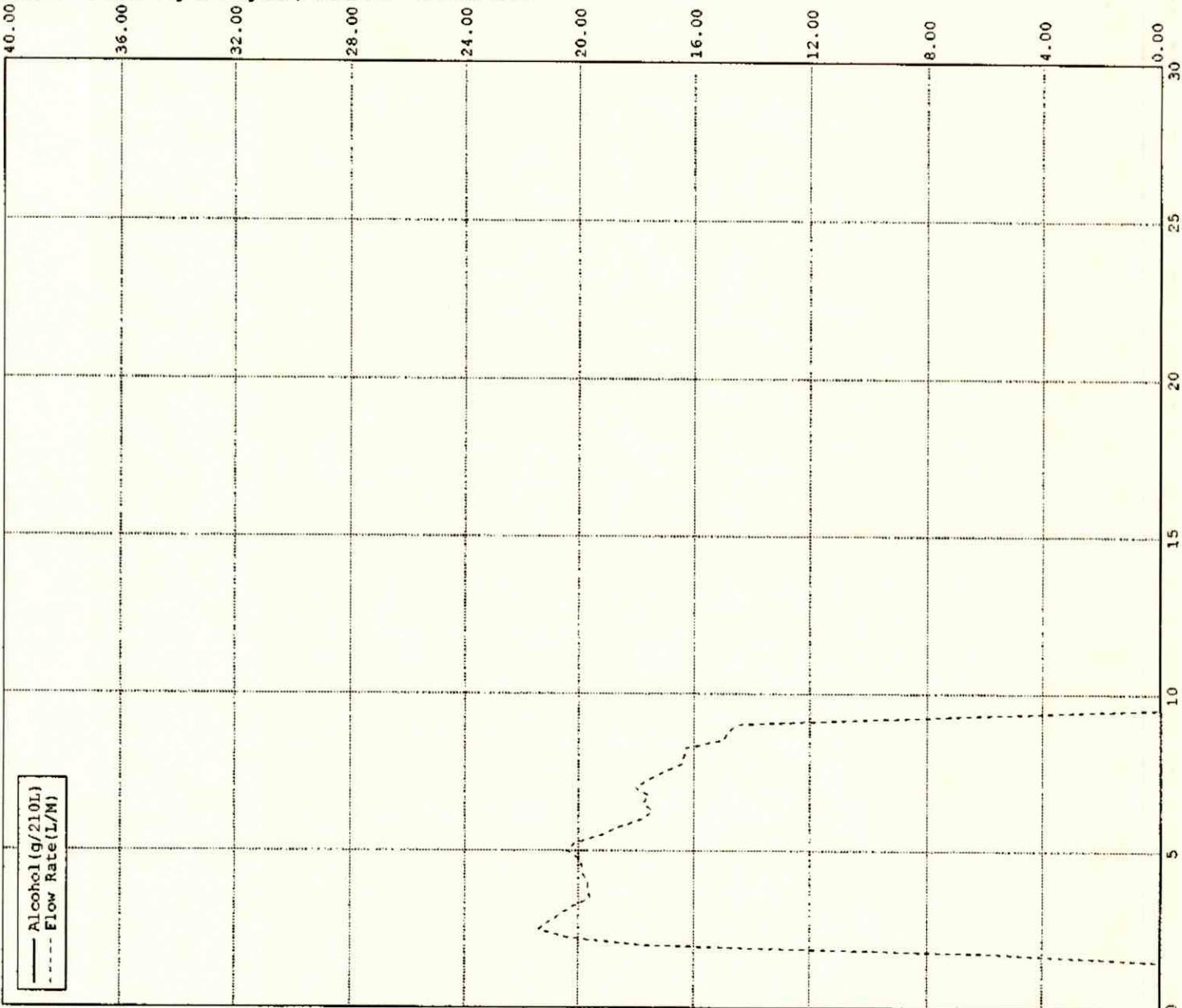
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.86: 0.077
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK PASSED 13:53
 BLANK TEST 0.000 13:53
 INTERNAL STANDARD VERIFIED 13:53
 EXTERNAL STANDARD 0.079 13:53
 BLANK TEST 0.000 13:54

RFI DETECTED



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100387

 Date: 09/23/2013
 Time: 14:06:51

SUBJECT NAME:
 TEST TEST
 LICENSE #: NONDRINKING

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.87: 0.077
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

| | | |
|-------------------|----------|-------|
| DIAGNOSTIC CHECK | PASSED | 14:07 |
| BLANK TEST | 0.000 | 14:07 |
| INTERNAL STANDARD | VERIFIED | 14:08 |
| EXTERNAL STANDARD | 0.080 | 14:08 |
| BLANK TEST | 0.000 | 14:09 |
| SUBJECT SAMPLE | 0.000 | 14:09 |
| BLANK TEST | 0.000 | 14:10 |
| EXTERNAL STANDARD | 0.079 | 14:10 |
| BLANK TEST | 0.000 | 14:11 |

CS